

ILLEGIB

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HANDLE VIA
TALENT-KEYHOLE
CONTROL SYSTEM ONLY

~~TOP SECRET RUFF~~

TCS 8137/64
M/EB 445/64
10 September 1964
Copy _____

MEMORANDUM FOR: Chief, General Sciences Division, OSI

ATTENTION: [REDACTED] Astro-Geophysical Branch

THROUGH: Chief, Requirements Branch, Reconnaissance Group, CGS

FROM: Chief, CIA/PID (NPIC)

SUBJECT: Possible Eight-Dish Antenna Arrays, Serpukhov
Radiophysical Station, USSR

REFERENCES: (a) Requirement C-SI-4-81,698
(b) CIA/PID Project C 1311-64

1. This memorandum is in response to your requirement dated 11 August 1964 requesting 20x and 40x enlargements, a stereogram, and specific mensuration details of the two possible eight-dish antenna arrays located at the Serpukhov Radiophysical Station (54-49N 37-38E).

2. Enclosed are 20x and 40x enlargements, plus a stereogram from [REDACTED]

The mensuration data requested is as follows. Measurements are based on a scale determined from photo data and the reported length of the [REDACTED]

- a. Diameter of each possible dish - 5 meters (16.8 feet)
- b. Overall length and width of each eight-dish array - [REDACTED]
- c. Distance between each eight-dish array - [REDACTED]
- d. Distance between suspect antenna mountings - [REDACTED]
- e. Orientation of eight-dish antenna arrays - 30/210 degrees*
*(Azimuths of a line perpendicular to a line projected through the rows of each set of arrays)
- f. Orientation of suspect antenna mountings - approximately 0/180 degrees*
*(Azimuths of a line perpendicular to a line projected through each suspect antenna mounting)

No new construction can be identified which suggests use of the arrays in a transmitting mode. The items you refer to as possible mountings for the eight-dish antenna arrays cannot be identified as to their configuration or function. They do, however, form the two ends of the cross portion of a "T" pattern of earth scars connected together by possible cables. The length of the stem portion of the "T" cannot be accurately determined; however,

GROUP 1
Excluded from automatic
downgrading and
declassification

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Declassification Review by NIMA DoD

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SUBJECT: Possible Eight-Dish Antenna Arrays, Serpukhov
Radiophysical Station, USSR

TCS 8137/04
M/EB 445/04

25X1D it may be approximately the same length as the cross portion. The eight-dish arrays and the "T" pattern of earth scars cannot be identified on photography earlier than [REDACTED]

3. The photo analyst on this project is [REDACTED] who may be contacted on extension 2421 should you have any further questions concerning this project.

25X1A

4. This project is considered to be complete.

f [REDACTED]

25X1A

Enclosures:

- 1 - Two (2) 20x enlargements (1 with overlay) (CIA/PID/MEB-P-827/64 and P-828/64)
- 2 - Two (2) 40x enlargements (CIA/PID/MEB-P-829/64 and P-830/64)
- 3 - One (1) stereogram (CIA/PID/MEB-P-831/64)

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City SERPUKOV
Country USSR

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WAC/ENC

Subject SERPUKOV, RADIO PHYSICAL STATION (SIGNAL ARRAYS)
Coord 54-44 N, 37-38 E

Control

Time

Scale 1:

tan

Job No.

Control

Camera D56

Frame 1/111

CIA/PID/MEB-P-831/04
Attach to: TCS 8137/04
M/EB 445/04

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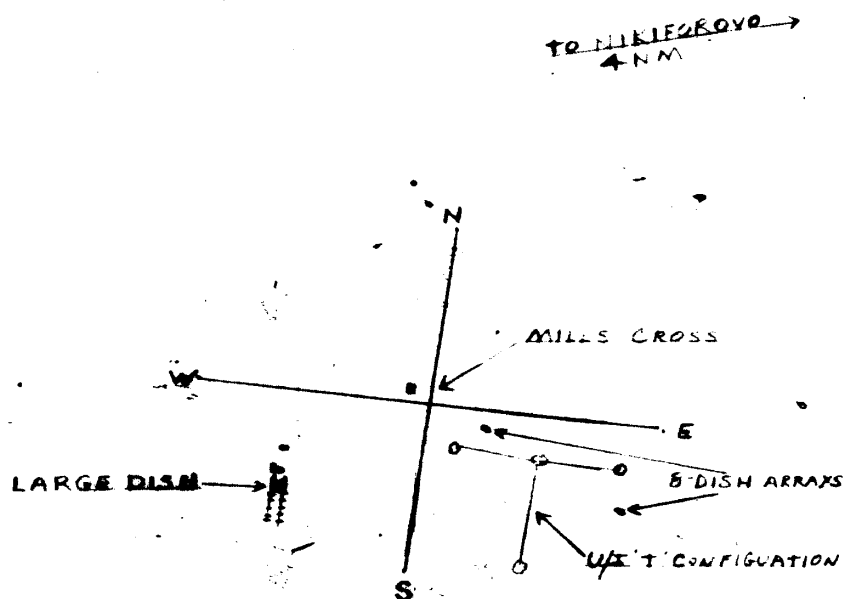
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OKA RIVER

OVERLAY TO 20X ENLARGEMENT

25X1D



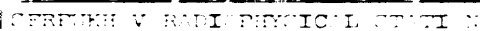
SERPUKHOV RADIOPHYSICAL STATION

54-49 N 37-38 E

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CIA/PID/MEB-P-627/64
Attach to: TCS 8137/64
M/EB 445/64

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Attach to: TCS 10/1/01
MIR 10/1/01

25X1D 25X1D

NPIC

TRU

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NPIC TOP SECRET RUSS

SERPUKH V. RADIOPHYSICAL STATION
SA-400 27-300
(see enlargement)

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GERPUEKHOV RADIOPHYSICAL STATION
50-4-01 57-00
(2x enlargement)

5-13778



SERFUKHOV RADIO PHYSICAL STATION
SERFUKHOV RADIO PHYSICAL STATION
25X1D (40X enlargement)

S-13978